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Inventor Application of:  
Stephen A. Johnston *et al.*

Group Art Unit: 1635

Examiner: Unknown

Atty. Dkt. No.: UTSD:736US/MBW

Serial No.: 10/023,437

Filed: December 17, 2001

For: METHODS AND COMPOSITIONS FOR  
VACCINATION COMPRISING  
NUCLEIC ACID AND/OR  
POLYPEPTIDE SEQUENCES OF  
CHLAMYDIA

CERTIFICATE OF MAILING  
37 C.F.R. 1.8

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Date

Mark B. Wilson

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No.: 50-1212/10112032/MBW.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Mark B. Wilson  
Reg. No. 37,259  
Attorney for Applicants

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Date: March 26, 2002

CP 1635 #5

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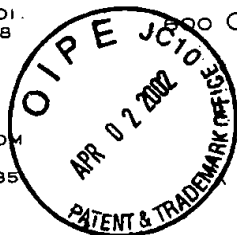
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FILE: UTSD:736US

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Commissioner for Patents  
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RE: SN 10/023,437 "METHODS AND COMPOSITIONS FOR VACCINATION  
COMPRISING NUCLEIC ACID AND/OR POLYPEPTIDE SEQUENCES OF  
CHLAMYDIA" - Stephen A. Johnston et al. (Client Reference: UTSMC/DAL:736)

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references (A1, C1-C29).

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No.: 50-1212/10112032/MBW.

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Respectfully submitted,

Mark B. Wilson  
Reg. No. 37,259

MBW/cmb

Encl: as noted

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Form PTO-1449 (modified)

Atty. Docket No.  
UTSD:736US/MBWSerial No.  
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List of Patents and Publications for Applicant's

Applicant  
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1635U.S. Patent Documents  
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## U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date     | Name                   | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|----------|------------------------|-------|-----------|---------------------|
|             | A1        | 5,703,057       | 12/30/97 | Johnston <i>et al.</i> | 514   | 44        | 4/7/95              |

## Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|------|---------|-------|-----------|--------------------|
|             |           |                 |      |         |       |           |                    |

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation   |
|-------------|-----------|--|
|             | C1        | Alberti <i>et al.</i> , "Specific cellular and humoral immune response in Balb/c mice immunised with an expression genomic library of <i>Trypanosoma cruzi</i> ," <i>Vaccine</i> , 16(6):608-612, 1998.  |
|             | C2        | Babiuk, "Broadening the approaches to developing more effective vaccines," <i>Vaccine</i> , 17:1587-1895, 1999.  |
|             | C3        | Barry <i>et al.</i> , "Protection against mycoplasma infection using expression-library immunization," <i>Nature</i> , 377:632-635, 1995.  |
|             | C4        | Brayton <i>et al.</i> , "Expression library immunization to identify protective antigens from <i>Cowdria ruminantium</i> ," <i>Ann. NY Acad. Sci.</i> , 849:369-371, 1998.   |
|             | C5        | Ellis, "New technologies for making vaccines," <i>Vaccine</i> , 17:1596-1604, 1999.  |
|             | C6        | Feltquate, <i>et al.</i> , "Different T helper cell types and antibody isotypes generated by saline and gene gun DNA immunization," <i>J Immunol</i> , 158:2278-2284, 1997.  |
|             | C7        | Huang, <i>et al.</i> , "IL-12 administered during <i>Chlamydia psittaci</i> lung infection in mice confers immediate and long-term protection and reduces MIP-2 level and neutrophil infiltration in lung tissue," <i>J. Immunol.</i> , 162:2217-2226, 1999. |
|             | C8        | Johnston and Barry, "Genetic to genomic vaccination," <i>Vaccine</i> , 15(8):808-809, 1997.  |
|             | C9        | Kalman <i>et al.</i> , "Comparative genomes of <i>Chlamydia pneumoniae</i> and <i>C. trachomatis</i> ," <i>Nature Genetics</i> , 21:385-389, 1999.   |

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Form PTO-1449 (modified)

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|-------------|-----------|--|
|             | C10       | Kaltenbock <i>et al.</i> , "Genetically determined vigorous innate immunity is associated with protection against primary chlamydial lung infection in mice, but with profound disease exacerbation in reinfection," <i>In Chlamydial Infections: Proceedings of the 9th International Symposium on Human Chlamydial Infection</i> , E. A. R. Stephens, ed., 1998. |
|             | C11       | Kaltenbock <i>et al.</i> , "Evidence for numerous omp1 alleles of porcine <i>Chlamydia trachomatis</i> and novel chlamydial species obtained by PCR," <i>J. Clin. Microbiol.</i> , 35:1835-1841, 1997.   |
|             | C12       | Kaltenboeck <i>et al.</i> , "Structures of and allelic diversity and relationships among the major outer membrane protein (ompA) genes of the four chlamydial species," <i>J Bacteriol.</i> , 175(2):487-502, 1993.  |
|             | C13       | Longbottom <i>et al.</i> , "Identification of a multigene family coding for the 90 kDa proteins of the ovine abortion subtype of <i>Chlamydia psittaci</i> ," <i>FEMS Microbiology Letters</i> , 142:277-281, 1996.  |
|             | C14       | Longbottom, <i>et al.</i> , "Molecular cloning and characterization of the genes coding for the highly immunogenic cluster of 90-kilodalton envelope proteins from the <i>Chlamydia psittaci</i> subtype that causes abortion in sheep," <i>Infect Immun</i> , 66:1317-1324, 1998.   |
|             | C15       | Manoutcharian <i>et al.</i> , "Protection against murine cysticercosis using cDNA expression library immunization," <i>Immunol. Lett.</i> , 62:131-136, 1998.  |
|             | C16       | Meijer <i>et al.</i> "Genomic relatedness of <i>Chlamydia</i> isolates determined by amplified fragment length polymorphism analysis," <i>J. Bacteriology</i> , 181:4469-4475, 1999.   |
|             | C17       | Morrison, <i>et al.</i> , "Gene knockout mice establish a primary protective role for major histocompatibility complex class II-restricted responses in <i>Chlamydia trachomatis</i> genital tract infection," <i>Infect. Immun.</i> , 63:4661-4668, 1995.   |
|             | C18       | Piedrafita <i>et al.</i> , "Protective immune response induced by vaccination with an expression genomic library of <i>Leishmania major</i> ," <i>Journal of Immunology</i> , 163:1467-1472, 1998.   |
|             | C19       | Rottenberg, <i>et al.</i> , "Role of innate and adaptive immunity in the outcome of primary infection with <i>Chlamydia pneumoniae</i> , as analyzed in genetically modified mice," <i>J. Immunol.</i> , 162:2829-2836, 1999.  |
|             | C20       | Sanford, <i>et al.</i> , "An improved, helium-driven biolistic device," <i>Technique</i> , 3:3-16, 1991.   |
|             | C21       | Smooker <i>et al.</i> , "Expression library immunization protects mice against a challenge with virulent rodent malaria," <i>Vaccine</i> , 18:2533-2540, 2000.   |

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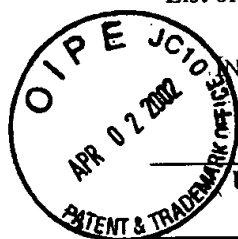
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|             | C22       | Stephens <i>et al.</i> , "Genome sequence of an obligate intracellular pathogen of humans: <i>Chlamydia trachomatis</i> ," <i>Science</i> , 282:754-759, 1998.   |
|             | C23       | Sykes and Johnston, "Genetic live vaccines mimic the antigenicity but not pathogenicity of live viruses," <i>DNA Cell. Biol.</i> , 18(7):521-531, 1999.  |
|             | C24       | Tan, <i>et al.</i> , "Protection of sheep against <i>Chlamydia psittaci</i> infection with a subcellular vaccine containing the major outer membrane protein," <i>Infect Immun</i> , 58:3101-3108, 1990.                                       |
|             | C25       | Tang <i>et al.</i> , "Genetic immunization is a simple method for eliciting an immune response," <i>Nature</i> , 356:152-154, 1992.  |
|             | C26       | Ulmer and Liu, "ELI's coming: expression library and vaccine antigen discovery," <i>Comment Viewpoint</i> .  |
|             | C27       | Vanrompay <i>et al.</i> , "Protection of turkeys against <i>Chlamydia psittaci</i> challenge by gene gun-based DNA immunizations," <i>Vaccine</i> , 17:2628-2635, 1999.  |
|             | C28       | Vanrompay <i>et al.</i> , "Protection of turkeys against <i>Chlamydia psittaci</i> challenge by parenteral and mucosal inoculations and the effect of turkey interferon-gamma on genetic immunization," <i>Immunology</i> , 103:106-112, 2001. |
|             | C29       | Vanrompay <i>et al.</i> , "Turkeys are protected from infection with <i>Chlamydia psittaci</i> by plasmid DNA vaccination against the major outer membrane protein," <i>Clin. Exp. Immunol.</i> , 118:49-55, 1999.                             |
|             | C30       | Co-pending U.S. Patent Application Serial Number 09/738,269 by Stephen A. Johnston <i>et al.</i> , filed December 15, 2000.  |

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